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(54) IMPROVEMENTS IN AND RELATING TO BUILDING UNITS AND A METHOD OF BUILDING CONSTRUCTION EMPLOYING THE SAME

(71) I, JOHN ALAM, a British Subject, of 81, The Ringway, Queniborough, Leicestershire, do hereby declare the invention, for which I pray that a patent may be granted to me, and the method by which it is to be performed, to be particularly described in and by the following statement:—

The invention relates to prefabricated building units.

The primary object of the invention is to enable relatively lightweight building units to be constructed with unskilled labour away from the site, and to be thereafter transported to site on low loaders and positioned with the assistance of small cranes or/and rollers or equivalent.

The invention provides a prefabricated building unit which consists of a box-like structure comprising a rigid framework shaped and adapted to provide, internally of the structure, walls, a floor and a ceiling, the outside of this framework having attached thereto wire mesh over which is spread to a desired thickness an outer covering of concrete to provide a durable and firm outer covering whilst the inner sides of the walls and ceiling have adhered thereto, a plaster skim, the unit functioning as a container and having formed in at least one of its walls one or more openings to receive one or more door or/and window frame(s).

The basic unitary structure, in fact, constitutes a room or rooms, an extension, and outbuilding, a site hut, a holiday home or the like.

Door and window frames, and corresponding doors and glazing may be fitted either away from or on the site.

In a preferred embodiment the invention provides a prefabricated building unit as hereinbefore described wherein spaces initially provided between the intersecting members of the framework may, if desired, also be filled with concrete to produce walls, ceiling and floor of solid section. In this case the plaster skim may be applied directly to the inner faces of the solid section walls and ceiling.

In a further preferred embodiment of the invention the said spaces may be left empty to provide cavities, the cavities being conveniently closed on the inside of the unit by plaster boards or any other suitable cladding to which the plaster skim can be applied.

Preferably lifting eyes and ties are incorporated into the unit during manufacture.

In use, a number of the building units may be assembled and bolted secured together on site, in any appropriate relative positions, so as to provide a complete sectional building structure such, for example, as a house, a bungalow, an office suite, a hotel, a public building or the like.

A plurality of the building units may be supported one above another in superimposed compartments of an additional rigid framework to provide any appropriate form of multi-storey building.

There now follows, by way of example, a description of building units according to the invention to be read with reference to the attached drawings, in which:—

Figure 1 is a perspective view of a building unit — partly broken away to show its construction,

Figure 2 is a perspective view of a portion of the rigid framework of the said unit,

Figure 3 is a vertical sectional view of a portion of a wall of the unit,

Figure 4 is a view similar to Figure 3 illustrating an alternative wall construction of the unit,

Figure 5 is a perspective view of a unit in the form of a site office,

Figure 6 is a perspective view of a building unit in the form of a holiday chalet,

Figures 7 and 8 are perspective and plan views respectively of a building unit adapted for use as emergency living accommodation,

Figure 9 is a schematic perspective view of a bungalow, constructed from a plurality of building units,

Figure 10 is a plan view of the said bungalow shown in Figure 9, and

Figure 11 is a perspective view of a multi-

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of the walls and ceiling have adhered thereto, a plaster skim, the unit functioning as a container and having formed in at least one of its walls one or more openings to receive one or more door or/and window frame(s).

2. A prefabricated building unit according to Claim 1 wherein spaces initially provided between the intersecting members of the framework are filled with concrete such-wise as to produce ferro-concrete walls, ceiling and floor of solid section, a plaster skim being applied directly to the inner faces of the solid section walls and ceiling.

3. A prefabricated building unit according to Claim 1 wherein spaces between the intersecting members of the framework are

left empty to provide cavities, the latter being closed on the inside of the unit by plaster boards or any other suitable cladding to which plaster skim is applied.

4. A prefabricated building unit according to any of the preceding claims, wherein lifting eyes and ties are incorporated into the unit during manufacture.

5. A prefabricated building unit which is constructed substantially as herein described with reference to, and illustrated by, the accompanying drawings.

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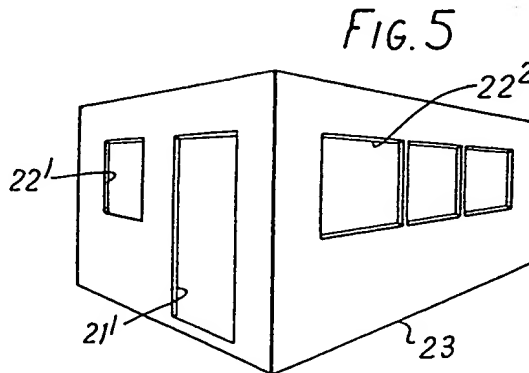
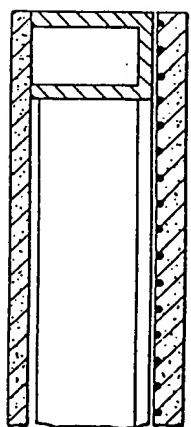
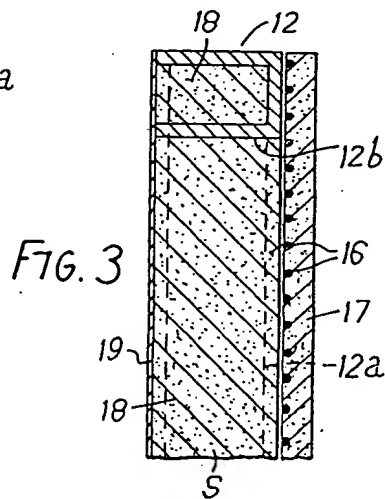
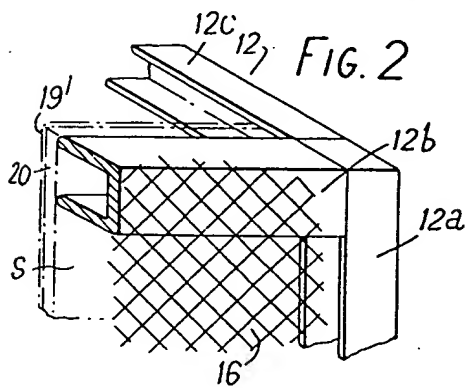
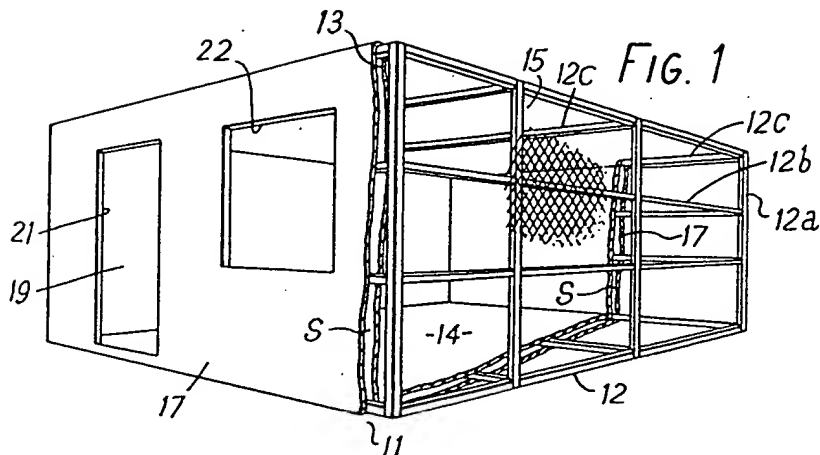
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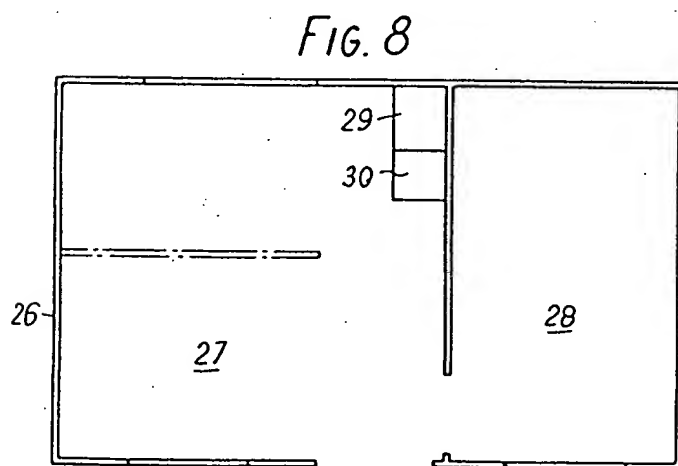
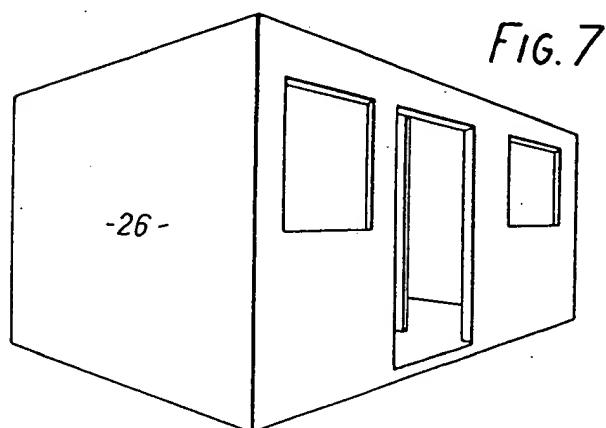
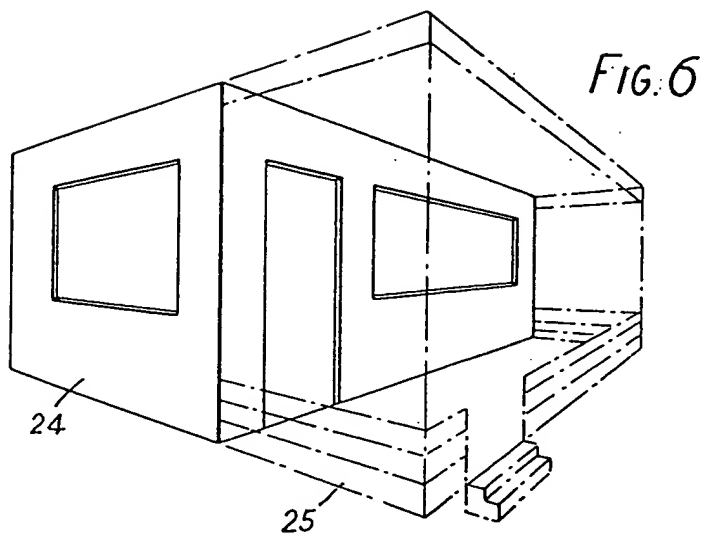
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